

# P **Hyssopus officinalis**

## Common Name(s)

Hyssop

## How Used

G

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	(1S,2R,5R)-3-PINANONE	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.		
67	1,8-CINEOLE	Shoot	488	610	-0.1268500303308429	Indian Perfumer, 35: 51.	
67	1,8-CINEOLE	Essential Oil	--	122000	-0.2995646683900661		
0	1,8-EPOXY-2-P-MENTHENE	Shoot	1	1		Indian Perfumer, 35: 51.	
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	20	20	-1.0197539568091138	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	10	-1.281976402845743	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	20	-1.0197539568091138	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	80	0.5535807194106619	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	60	0.029135827337403337	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	40	-0.49530906473585523	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	130	1.8646929495938078	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	70	0.29135827337403264	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	1-(1,4-DIMETHYL-3-CYCLOHEXEN-1-YL)ETHANONE	Shoot	--	100	1.0780256114839202	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	10-EPI-(ALPHA)-CADINOL	Plant	1	1	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2-HEXANONE	Shoot	5	6		Indian Perfumer, 35: 51.
0	3-CARENE	Shoot	1	1	-0.9001800540180063	Indian Perfumer, 35: 51.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	3-OCTANOL	Plant	--	--		Planta Medica, 55: 226.
0	3-OCTANONE	Shoot	1	1	-0.6620789856466877	Indian Perfumer, 35: 51.
0	ALLO-AROMADENDRENE	Shoot	20	20	-0.1608483402738876	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	20	-0.1608483402738876	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	30	-0.14770908936333357	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	10	-0.17398759118444163	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALLO-AROMADENDRENE	Shoot	--	30	-0.1477090893633357	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	30	-0.1477090893633357	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	40	-0.13456983845277953	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALLO-AROMADENDRENE	Shoot	--	70	-0.09515208572111743	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALLO-AROMADENDRENE	Shoot	--	20	-0.1608483402738876	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CADINENE	Plant	--	--		
0	ALPHA-CAMPHENENE	Essential Oil	--	--		
0	ALPHA-CARYOPHYLLENE	Shoot	140	140	-0.26016086780944275	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	180	-0.2527416112637675	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	190	-0.2508867971273487	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALPHA-CARYOPHYLLENE	Shoot	--	160	-0.2564512395366051	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	120	-0.26387049608228036	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	200	-0.2490319829909299	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	140	-0.26016086780944275	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	260	-0.23790309817241706	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALPHA-CARYOPHYLLENE	Shoot	--	260	-0.23790309817241706	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-CARYOPHYLLENE	Shoot	--	290	-0.23233865576316065	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	120	120	1.7429746857725639	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	70	0.5852793225287944	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	50	0.12220117723128662	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALPHA-GURJUNENE	Shoot	--	60	0.3537402498800405	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	30	-0.34087696806622114	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	50	0.12220117723128662	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	40	-0.10933789541746726	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	100	1.279896540475056	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	ALPHA-GURJUNENE	Shoot	--	120	1.7429746857725639	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-GURJUNENE	Shoot	--	120	1.7429746857725639	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	ALPHA-HUMULENE	Flower	1	12	-0.8529274950889835	
2	ALPHA-HUMULENE	Leaf	1	140	-0.23026576726663947	
11	ALPHA-PHELLANDRENE	Flower	12	120	-1	Flavour and Fragrance Journal, 6: 69.
11	ALPHA-PHELLANDRENE	Leaf	5	320	-0.08738448361690086	
11	ALPHA-PHELLANDRENE	Essential Oil	--	--		
28	ALPHA-PINENE	Leaf	0.1	280	-0.12975468398012238	
28	ALPHA-PINENE	Shoot	40	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
28	ALPHA-PINENE	Shoot	--	20	-0.14545386782429234	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	30	-0.144456548398003	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	80	-0.13946995126655645	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	70	-0.14046727069284576	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
28	ALPHA-PINENE	Shoot	--	60	-0.14146459011913506	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Shoot	--	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
28	ALPHA-PINENE	Essential Oil	--	--		
13	ALPHA-TERPINENE	Leaf	1	411	0.6590992695708332	
23	ALPHA-TERPINEOL	Flower	0.3	3	-0.7017091422809357	Flavour and Fragrance Journal, 6: 72.
23	ALPHA-TERPINEOL	Leaf	0.1	360	0.041693203276555756	
0	ALPHA-THUJENE	Shoot	30	30	-0.015964452138927467	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALPHA-THUJENE	Shoot	--	30	-0.015964452138927467	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	20	-0.1962858241900714	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	30	-0.015964452138927467	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	30	-0.015964452138927467	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	ALPHA-THUJENE	Shoot	--	60	0.5249996640145044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	50	0.3446782919633604	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	ALPHA-THUJENE	Shoot	--	20	-0.1962858241900714	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	20	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
6	ALPHA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
6	ALPHA-THUJONE	Shoot	--	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
24	BENZALDEHYDE	Shoot	--	--		Indian Perfumer, 35: 51.	
9	BENZYL-ALCOHOL	Flower	3	32	-0.7063856201770791	Flavour and Fragrance Journal, 6:	72.
9	BENZYL-ALCOHOL	Leaf	0.1	30	1.601098364560363	Flavour and Fragrance Journal, 6:	72.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
9	BENZYL-ALCOHOL	Essential Oil	--	--		
0	BETA-CARYOPHYLLENE	Flower	40	415	0.7236924389584528	
0	BETA-CARYOPHYLLENE	Leaf	3	660	-0.011681242399672966	
0	BETA-CARYOPHYLLENE	Shoot	240	240	0.0765910236611119	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	260	0.11713788168200157	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	200	-0.004502692380667468	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	230	0.056317594650667054	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BETA-CARYOPHYLLENE	Shoot	--	330	0.2590518847551154	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	200	-0.004502692380667468	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	210	0.015770736629777373	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	270	0.13741131069244641	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-CARYOPHYLLENE	Shoot	--	240	0.0765910236611119	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-ELEMENE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev Reference Citation	
13	BETA-IONONE	Flower	0.6	6	-0.5924279733807828 Flavour and Fragrance Journal, 6: 72.
13	BETA-IONONE	Leaf	0.3	4	-0.8302186598528475 Flavour and Fragrance Journal, 6: 72.
2	BETA-MYRCENE	Shoot	80	80	-0.1971793163523678 Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	70	-0.21760278603105 Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	120	-0.11548543763763912 Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	130	-0.09506196795895694 Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	BETA-MYRCENE	Shoot	--	90	-0.17675584667368563	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	BETA-MYRCENE	Shoot	--	120	-0.11548543763763912	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	BETA-MYRCENE	Shoot	--	70	-0.21760278603105	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	BETA-MYRCENE	Shoot	--	50	-0.2584497253884143	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	BETA-MYRCENE	Shoot	--	80	-0.1971793163523678	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
3	BETA-PHELLANDRENE	Flower	34	348		Flavour and Fragrance Journal, 6: 69.
3	BETA-PHELLANDRENE	Leaf	1	800	1.4464464977775597	
3	BETA-PHELLANDRENE	Shoot	330	330	0.8120214473898526	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	190	0.20053484678699166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	280	0.5936333757459736	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	380	1.0304095190337315	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	BETA-PHELLANDRENE	Shoot	--	330	0.8120214473898526	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	290	0.6373109900747495	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	50	-0.41095175381586924	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	60	-0.3672741394870935	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	50	-0.41095175381586924	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	BETA-PHELLANDRENE	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	BETA-PINENE	Leaf	66	4580	6.3263317984661365	
13	BETA-PINENE	Shoot	--	168000	11.646965341540012	
13	BETA-PINENE	Shoot	--	520	-0.08467542067213087	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	620	-0.07767061964382173	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	1750	0.0014836319760715047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	1080	-0.04544853491359971	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
13	BETA-PINENE	Shoot	--	1050	-0.04754997522209245	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	930	-0.055955736456063415	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	790	-0.06576245789569621	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Shoot	--	780	-0.06646293799852712	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
13	BETA-PINENE	Essential Oil	--	102000	1.5344583642563674	
0	BETA-SELINENOL	Shoot	0.1	0.1	-1.0000000000000002	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	BETA-SELINENOL	Shoot	--	20	1	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BETA-SELINENOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
47	BETA-SITOSTEROL	Plant	--	--	Leung, A. Y. and Foster, S.	1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
5	BETA-THUJONE	Shoot	0.1	0.1	-0.3181087855129189	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	BETA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	BETA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
5	BETA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
5	BETA-THUJONE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	BICYCLOGERMACRENE	Shoot	520	520	1.3615697418668673	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	460	1.1039406516366181	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	480	1.1898170150467011	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	420	0.9321879248164519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	510	1.318631560161826	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BICYCLOGERMACRENE	Shoot	--	760	2.3920861027878644	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	460	1.1039406516366181	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	430	0.9751261065214935	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	540	1.4474461052769505	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	BICYCLOGERMACRENE	Shoot	--	520	1.3615697418668673	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
35	BORNEOL	Shoot	3	4	-0.394923705122541	Indian Perfumer, 35: 52.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	BORNEOL-ACETATE	Essential Oil	--	--		
12	BORNYL-ACETATE	Plant	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.	
102	CAFFEIC-ACID	Plant	--	--	Jim Duke's personal files.	
9	CAMPHENENE	Leaf	6	80	-0.162453933589436	
9	CAMPHENENE	Shoot	--	115000	10.475998457193025	
9	CAMPHENENE	Shoot	--	20	-0.132431054972519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) <i>J. Agric.</i> <i>Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	20	-0.132431054972519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) <i>J. Agric.</i> <i>Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	40	-0.13058578979385044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) <i>J. Agric.</i> <i>Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
9	CAMPHENENE	Shoot	--	40	-0.13058578979385044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	30	-0.13150842238318472	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	40	-0.13058578979385044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	40	-0.13058578979385044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Shoot	--	20	-0.132431054972519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
9	CAMPHENENE	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
41	CAMPHOR	Flower	125	1240	-0.4037256527367186	
41	CAMPHOR	Leaf	10	3280	-0.17537277359849665	
41	CAMPHOR	Essential Oil	--	--		
0	CAR-3-ENE	Essential Oil	--	--		
0	CAROTENES	Plant	--	1080	-1	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
37	CARVACROL	Plant	1	1	-0.8666583045604165	
20	CHOLINE	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CINEOL	Essential Oil	--	--		
0	CIS-BETA-OCIMENE	Flower	0.6	6		
0	CIS-BETA-OCIMENE	Leaf	0.1	720	1.414213562373095	
0	CIS-BETA-OCIMENE	Shoot	200	200	0.7467492919714654	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CIS-BETA-OCIMENE	Shoot	--	50	-0.23036120109191133	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	110	0.1604829961334394	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	10	-0.49092399924214514	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	10	-0.49092399924214514	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CIS-BETA-OCIMENE	Shoot	--	100	0.09534229659588093	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	80	-0.03493910247923596	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-BETA-OCIMENE	Shoot	--	200	0.7467492919714654	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	CIS-CALAMENENE	Plant	--	--		
0	CIS-NEROLIDIOL	Leaf	2	20		Flavour and Fragrance Journal, 6: 72.
0	CIS-NEROLIDOL	Essential Oil	--	--		
0	CIS-PINIC-ACID	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CIS-PINIC-ACID	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	CIS-PINOIC-ACID	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CIS-PINONIC-ACID	Essential Oil	--	--		
0	CRYPTONE	Shoot	7	9		Indian Perfumer, 35: 52.
10	CUMINALDEHYDE	Shoot	4	7	-0.2854659339161764	Indian Perfumer, 35: 52.
0	D-2-HYDROXYISOPINOCAMPHONE	Plant	6	140		
19	D-LIMONENE	Shoot	40	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	50	0.5345224838248486	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
19	D-LIMONENE	Shoot	--	60	1.7371980724307592	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
19	D-LIMONENE	Shoot	--	60	1.7371980724307592	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	D-TERPINEOL	Shoot	12	15		Indian Perfumer, 35: 52.
0	DELPHINIDIN-3-(P-COUMAROYLGLUCOSIDE)-5-GLUCOSIDE	Flower	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	DELTA-CADINENE	Plant	14	420	2.4375748902835204	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	DIOSMETIN	Essential Oil	--	--		Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
0	DIOSMETIN-GLYCOSIDES	Essential Oil	--	--		Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
34	DIOSMIN	Plant	30000	60000	1.1355499479153381	
34	DIOSMIN	Shoot	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
34	DIOSMIN	Leaf	--	--		
2	ELEMOL	Flower	21	215	Flavour and Fragrance Journal, 6: 72.	
2	ELEMOL	Leaf	0.4	608	-0.3001877753948351	Flavour and Fragrance Journal, 6: 72.
0	EO	Plant	300	20000	0.7798359465806497	
0	EO	Shoot	--	--		
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
0	EO	Shoot	--	10000	-0.027439288511147023	
3	ESTRAGOL	Shoot	0.1	0.1	-2.106539926775559	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis</i> L.) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	ESTRAGOL	Shoot	--	30	0.10458748884191567	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	ESTRAGOL	Shoot	--	20	-0.6349200080201161	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	ESTRAGOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
3	ESTRAGOL	Shoot	--	30	0.10458748884191567	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
12	ESTRAGOLE	Flower	2	18		Flavour and Fragrance Journal, 6: 69.
12	ESTRAGOLE	Leaf	1	80	-0.8780569046390017	Flavour and Fragrance Journal, 6: 69.
12	ESTRAGOLE	Essential Oil	--	--		
76	EUGENOL	Flower	62	624	-0.37203893797995374	Flavour and Fragrance Journal, 6: 72.
76	EUGENOL	Leaf	2	443	-0.764139250926167	
76	EUGENOL	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
5	EUGENOL-METHYL-ETHER	Shoot	50	50	1.4142135623730947	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	20	-0.40406101782088455	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	20	-0.40406101782088455	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	EUGENOL-METHYL-ETHER	Shoot	--	40	0.8081220356417683	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	50	1.4142135623730947	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	10	-1.010152544552211	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	40	0.8081220356417683	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
61	FERULIC-ACID	Plant	--	--		Jim Duke's personal files.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
6	FURFURAL	Shoot	1	2	1	Indian Perfumer, 35: 51.
0	GAMMA-CADINENE	Plant	--	--		
11	GAMMA-TERPINENE	Leaf	1	60	-0.2562362491576039	
35	GERANIOL	Flower	0.5	6	-0.5144293278566698	Flavour and Fragrance Journal, 6: 72.
35	GERANIOL	Leaf	0.1	2	-0.22954672153632943	Flavour and Fragrance Journal, 6: 72.
2	GERMACRENE-D	Flower	10	200	0.6421278095722747	
2	GERMACRENE-D	Leaf	4	3100	1.9841064805574304	
2	GERMACRENE-D	Shoot	920	920	0.1452819806663166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	900	0.1340695057747006	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	670	0.005126044521116516	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	GERMACRENE-D	Shoot	--	990	0.18452564278697262	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	GERMACRENE-D	Shoot	--	1550	0.4984749397522208	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	GERMACRENE-D	Shoot	--	1030	0.20695059257020465	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	GERMACRENE-D	Shoot	--	950	0.1621006930037406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	GERMACRENE-D	Shoot	--	970	0.1733131678953566	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	GERMACRENE-D	Shoot	--	920	0.1452819806663166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	GERMACRENE-D	Essential Oil	--	--		
0	GUM	Plant	--	--		
0	HEDYCARYOL	Flower	10	105		
0	HEDYCARYOL	Leaf	8	1700		
0	HEDYCARYOL	Shoot	410	410	-0.2891574659831202	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	680	1.4674741398643345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	350	-0.6795200450603324	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HEDYCARYOL	Shoot	--	240	-1.3951847733685547	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	410	-0.2891574659831202	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	250	-1.3301243435223526	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	560	0.6867489817099102	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	HEDYCARYOL	Shoot	--	660	1.3373532801719306	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HEDYCARYOL	Shoot	--	530	0.49156769217130414	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
31	HESPERIDIN	Plant	50000	60000		
0	HESPERIDIN-GLYCOSIDES	Essential Oil	--	--	Gruenwald, J. et al. 1998. <i>PDR for Herbal Medicine</i> . 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)	
0	HEXAN-1-OL	Flower	1	10		Flavour and Fragrance Journal, 6: 72.
0	HEXAN-1-OL	Leaf	1	15		Flavour and Fragrance Journal, 6: 72.
0	HYDROXYCINNAMIC-DERIVATIVES	Plant	--	22000	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.	
0	HYSSOPIN	Plant	--	--	Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980.	
0	HYSSOPUS-POLYSACCHARIDE-MAR-10	Leaf	--	112.2		
8	INOSITOL	Leaf	--	433.3		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
12	IODINE	Plant	0.014	0.014	-0.4477493394460826	
0	ISOPINOCAMPHONE	Flower	5	55		
4	ISOPINOCAMPHONE	Leaf	3	6520		
4	ISOPINOCAMPHONE	Shoot	130	130	-1.0068303821725977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	2940	0.8727097015815748	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	3260	1.086749853468171	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	1380	-0.1707360388655814	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	ISOPINOCAMPHONE	Shoot	--	1410	-0.15066977462621298	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	2220	0.3911193598367336	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	110	-1.02020789166551	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	200	-0.9600090989474048	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	130	-1.0068303821725977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	ISOPINOCAMPHONE	Essential Oil	--	381000		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LEDOL	Shoot	60	60	-0.03419291864772805	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	30	-0.12721777085110625	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	40	-0.09620948678331352	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	30	-0.12721777085110625	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	30	-0.12721777085110625	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LEDOL	Shoot	--	50	-0.06520120271552078	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	60	-0.03419291864772805	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	30	-0.12721777085110625	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	40	-0.09620948678331352	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LEDOL	Shoot	--	40	-0.09620948678331352	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
60	LIMONENE	Flower	5	54	-0.5756715791109762	Flavour and Fragrance Journal, 6: 69.
60	LIMONENE	Leaf	7	240	0.05717611233764573	
0	LINALOL	Flower	0.1	1	-0.3900304526992942	Flavour and Fragrance Journal, 6: 69.
0	LINALOL	Leaf	0.2	160	-0.34782849372113306	
0	LINALOL	Shoot	10	10	-0.22045995077650044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	LINALOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	LINALOL	Shoot	--	20	-0.21864515304044052	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LINALOL	Shoot	--	20	-0.21864515304044052	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LINALOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LINALOL	Shoot	--	80	-0.20775636662408106	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LINALOL	Shoot	--	70	-0.20957116436014098	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	LINALOL	Shoot	--	50	-0.2132007598322608	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	LINALOL	Shoot	--	70	-0.20957116436014098	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
53	LINALOOL	Leaf	0.2	160	-0.5366457589382241	
53	LINALOOL	Flower	0.1	1	-0.5919295131645452	Flavour and Fragrance Journal, 6: 72.
53	LINALOOL	Essential Oil	--	--		
8	MARRUBIIN	Plant	--	--		
6	METHYL-CHAVICOL	Shoot	1	260	1.6431262740379204	
20	METHYL-EUGENOL	Plant	7	100	-0.5641652169732609	
20	METHYL-EUGENOL	Shoot	7	100	-0.562321857612429	
0	METHYL-MYRTENATE	Flower	5	54		
0	METHYL-MYRTENATE	Leaf	4	480		
0	METHYL-MYRTENATE	Shoot	30	30	1.4142135623730956	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	30	1.4142135623730956	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	30	1.4142135623730956	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	METHYL-MYRTENATE	Shoot	--	20	-0.7071067811865474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
22	MYRCENE	Shoot	27	400	0.11420850874501413	
5	MYRTENAL	Shoot	24	30	-0.28722839924002375	Indian Perfumer, 35: 52.
0	MYRTENIC-ACID	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	MYRTENIC-ACID-METHYL-ESTER	Shoot	8	11		Indian Perfumer, 35: 52.
0	MYRTENIC-CIS-PINIC-ACID	Plant	--	--		
0	MYRTENIC-CIS-PINOIC-ACID	Plant	--	--		
0	MYRTOIC-ACID-METHYL-ESTER	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
2	MYRTENOL	Flower	16	160		
2	MYRTENOL	Leaf	0.5	520	4.047540790648524	
2	MYRTENOL	Shoot	260	260	0.18213108633003047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	170	0.032011825954089385	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	190	0.0653716615931874	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	250	0.16545116851048147	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	MYRTENOL	Shoot	--	200	0.08205157941273641	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	220	0.11541141505183443	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	210	0.09873149723228541	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	240	0.14877125069093244	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Shoot	--	260	0.18213108633003047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	MYRTENOL	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	MYRTENOL-METHYL-ETHER	Shoot	100	100	0.3429971702850172	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	110	0.6002450479987805	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	140	1.3719886811400703	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	110	0.6002450479987805	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	80	-0.17149858514250935	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	MYRTENOL-METHYL-ETHER	Shoot	--	130	1.114740803426307	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	30	-1.4577379737113256	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	40	-1.2004900959975624	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Shoot	--	40	-1.2004900959975624	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	MYRTENOL-METHYL-ETHER	Essential Oil	--	--		
1	MYRTENYL-ACETATE	Plant	--	--		
0	MYRTENYL-METHYL-ETHER	Flower	12	120		
0	MYRTENYL-METHYL-ETHER	Leaf	1	380		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-EICOSANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H.	1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	N-TETRADECANE	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
10	NEROL	Flower	0.8	8	-1.1381482713893585	Flavour and Fragrance Journal, 6: 72.
10	NEROL	Leaf	0.8	9	-0.2680817417810032	Flavour and Fragrance Journal, 6: 72.
2	NONANOIC-ACID	Plant	--	--		
0	NOPINONE	Shoot	6	8		Indian Perfumer, 35: 51.
0	O-VANILLIN	Leaf	0.1	21		Flavour and Fragrance Journal, 6: 72.
0	O-VANILLIN	Plant	--	--		Planta Medica, 55: 226.
0	O-VANILLIN	Essential Oil	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev Reference Citation		
0	OCT-1-EN-3-OL	Flower	0.1	1	-1	Flavour and Fragrance Journal, 6: 72.
0	OCT-1-EN-3-OL	Leaf	0.5	48	1	Flavour and Fragrance Journal, 6: 72.
0	OCTAN-3-OL	Leaf	1	1	-0.4618027280375439	Flavour and Fragrance Journal, 6: 72.
0	OCTAN-3-OL	Essential Oil	--	--	--	
64	OLEANOLIC-ACID	Plant	--	--	--	
16	P-CYMENE	Plant	6	180	-0.3733987842290206	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	P-CYMENE	Essential Oil	--	--	--	
0	P-CYmenol-8	Shoot	1	1	--	Indian Perfumer, 35: 52.
0	P-CYMOL	Shoot	3	4	1	Indian Perfumer, 35: 51.
0	P-VANILLIN	Leaf	1	38	--	Flavour and Fragrance Journal, 6: 72.
6	PHENETHYL-ALCOHOL	Plant	--	--	--	Planta Medica, 55: 226.
0	PHENETHYLETHANOL	Flower	2	21	--	Flavour and Fragrance Journal, 6: 72.
0	PHENETHYLETHANOL	Leaf	0.2	40	--	Flavour and Fragrance Journal, 6: 72.
0	PHENYLETHANOL	Essential Oil	--	--	--	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	PINOCAMPHEOL	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	PINOCAMPHEOL	Shoot	--	11000		
4	PINOCAMPHONE	Flower	200	2060		
4	PINOCAMPHONE	Leaf	24	12040		
4	PINOCAMPHONE	Shoot	--	691000 3.1621380760355877		
4	PINOCAMPHONE	Shoot	--	1950 -0.3159462820669804	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
4	PINOCAMPHONE	Shoot	--	1970 -0.31584532903430923	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
4	PINOCAMPHONE	Shoot	--	160 -0.3249815784910477	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
4	PINOCAMPHONE	Shoot	--	140	-0.32508253152371885	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	PINOCAMPHONE	Shoot	--	270	-0.3244263368113564	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4870	-0.30120713929699344	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4600	-0.3025700052380539	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4620	-0.3024690522053827	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
4	PINOCAMPHONE	Essential Oil	--	440000		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	PINOCARVEOL	Shoot	32	40	-1	Indian Perfumer, 35: 52.
1	PINOCARVONE	Shoot	170	170	-0.44935069162133884	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	530	-0.06062300782944939	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	560	-0.02822903418012527	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	570	-0.017431042963683897	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	2530	2.098975235458825	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	PINOCARVONE	Shoot	--	2550	2.120571217891708	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
1	PINOCARVONE	Shoot	--	2620	2.1961571564067977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
1	PINOCARVONE	Shoot	--	120	-0.5033406477035457	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
1	PINOCARVONE	Shoot	--	220	-0.395360735539132	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
1	PINOCARVONE	Shoot	--	170	-0.44935069162133884	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
1	PINOCARVONE	Essential Oil	--	203000		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	RESIN	Plant	--	--		
57	ROSMARINIC-ACID	Plant	5000	5000	-1.4207683050352211	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Inflorescence	--	--		
5	SABINENE	Flower	10	100	-0.43270519325643764	
5	SABINENE	Leaf	28	380	-0.019095817088093343	
5	SABINENE	Shoot	90	90	-0.2000946420151711	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	70	-0.2213896247926011	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	150	-0.1362096936828808	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	SABINENE	Shoot	--	80	-0.21074213340388603	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	SABINENE	Shoot	--	80	-0.21074213340388603	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
5	SABINENE	Shoot	--	90	-0.2000946420151711	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SALICYLIC-ACID-METHYL-ESTER	Shoot	1	2		Indian Perfumer, 35: 52.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	SPATHULENOL	Flower	--	--		
0	SPATHULENOL	Leaf	1	440	1.5472132169200414	
0	SPATHULENOL	Shoot	130	130	0.30921477678770815	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	130	0.30921477678770815	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	100	0.13521400556124616	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	160	0.48321554801417016	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	SPATHULENOL	Shoot	--	120	0.2512145197122208	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	90	0.07721374848575883	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	120	0.2512145197122208	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	110	0.1932142626367335	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	SPATHULENOL	Shoot	--	130	0.30921477678770815	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	T-CADINOL	Leaf	0.1	60	0.2141790245785401	Flavour and Fragrance Journal, 6: 72.
0	T-CADINOL	Shoot	30	30	0.6871033072491771	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	T-CADINOL	Shoot	--	20	0.1122369145170252	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	T-CADINOL	Shoot	--	30	0.6871033072491771	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.
0	T-CADINOL	Shoot	--	30	0.6871033072491771	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) J. Agric. Food Chem. 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation	
0	T-CADINOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	T-CADINOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	T-CADINOL	Shoot	--	30	0.6871033072491771	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	T-CADINOL	Shoot	--	--	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.	
0	T-CADINOL	Shoot	--	20	0.1122369145170252	Kerrola, K., Galambosi, B. and Kallio, H. 1994.	Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	T-CADINOL	Shoot	--	30	0.6871033072491771	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
35	TANNIN	Plant	50000	80000	-0.053082229266390064	Lawrence Review of Natural Products, Jan-87.
0	TERPENYL-ACETATE	Essential Oil	--	--		
23	TERPINEN-4-OL	Flower	2	28	-0.877935181573476	Flavour and Fragrance Journal, 6: 72.
23	TERPINEN-4-OL	Leaf	1	790	0.11076020391043574	Flavour and Fragrance Journal, 6: 72.
18	TERPINEOL	Essential Oil	--	--		
9	TERPINOLENE	Leaf	1	20	-0.20661710588269624	
5	TERPINYL-ACETATE	Plant	--	--		
5	TERPINYL-ACETATE	Shoot	--	--		
71	THYMOL	Shoot	2	3	-0.33238938578824073	Indian Perfumer, 35: 52.
0	TRANS-BETA-OCIMENE	Flower	6	66		
0	TRANS-BETA-OCIMENE	Leaf	1	140	-0.6821070631543047	
0	TRANS-HEXEN-1-OL	Plant	--	--		Planta Medica, 55: 226.
0	TRANS-NEROLIDOL	Flower	--	--		
0	TRANS-NEROLIDOL	Plant	1	80	-1	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
2	TRANS-PINOCARVEOL	Shoot	60	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	TRANS-PINOCARVEOL	Shoot	--	50	-0.18983506029499814	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	90	-0.17215583882914187	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	70	-0.18099544956207	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop ( <i>Hyssopus officinalis L.</i> ) <i>J. Agric. Food Chem.</i> 42: 776-781.
0	TRANS-SABINENE-HYDRATE	Flower	1	6		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation	
0	TRANS-SABINENE-HYDRATE	Leaf	1	40	0.9276212415517329	
89	URSOLIC-ACID	Plant	4900	4900	-0.5616031801935085	
0	VERBENOL	Leaf	1	78	1	Flavour and Fragrance Journal, 6: 72.
0	VERBENOL	Essential Oil	--	--		
3	XANTHOPHYLL	Plant	3556	3556		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.